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## WHAT IS CLAMED IS:

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- 1. cDNA represented as a nucleotide sequence of SEQ ID NO: 2, which codes for Saxatilin, a protein derived from venom of Agkistrodon saxatilis emelianov.
- 2. Saxatilin represented as an amino acid sequence of SEQ ID NO: 1 which is derived from the cDNA of claim 1.
- 3. A process for preparing Saxatilin which comprises the steps of:
  - (i) gel filtration of venom collected from Agkistrodon saxatilis emelianov to obtain active fraction; and,
- (ii) applying the active fraction to high performance liquid chromatography to purify Saxatilin.
  - 4. An expression vector pPSAX containing the cDNA of claim 1.
  - 5. A biologically pure culture of Pichia pastoris Y/pPSAX(KCCM-10201) which is obtained by transforming the expression vector pPSAX of claim 4 into Pichia pastoris GS115.
  - 6. A process for preparing recombinant Saxatilin which comprises a step of culturing a microorganism transformed with an expression vector containing cDNA of claim 1 to obtain recombinant Saxatilin.
  - 7. The process for preparing recombinant Saxatilin of claim 6, wherein the expression vector is pPSAX.
- 8. The process for preparing recombinant Saxatilin of claim 6, wherein the transformed microorganism is Pichia pastoris Y/pPSAX(KCCM-10201).

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- 9. The process for preparing recombinant Saxatilin of claim 8, wherein the transformed microorganism is cultured under a condition of pH 5.5 to 6.5, 25 to  $35\,^{\circ}$ C for 12 to 24 hours, harvested by centrifugation and cultured again on a medium containing 0.5 to  $1.5\,^{\circ}$ (v/v) methanol under a condition of pH 5.5 to 6.5, 25 to  $35\,^{\circ}$ C for 72 to 120 hours.
- 10. The process for preparing recombinant Saxatilin of claim 8, wherein the culture containing transformed microorganism is subjected to a hydrophobic column and high performance liquid chromatography to purify Saxatilin.
- 11. Anti-platelet agent comprising an active ingredient of Saxatilin and pharmaceutically acceptable carrier.
  - 12. Anti-tumor agent comprising an active ingredient of Saxatilin and pharmaceutically acceptable carrier.

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